

D2

** SS 1: Results 1

Search statement 2

Query/Command : PRT SS 1 MAX 1 IMG %PSET% FULLCLMS

1/1 DWPI - (C) Derwent- image

Accession Nbr :

1993-084325 [10]

Sec. Acc. CPI :

C1993-037536

Title :

Multilayer filtering material for cleaning of gases - has additional fibrous layer whose needle puncturing density is double that of the outer layers

Derwent Classes :

F07 J01

Patent Assignee :

(NONW=) NONWOVEN TEXTILE RES INST

Inventors :

KONYUKHOVA SV; PUZANOVA NV; SUTYAGINA TF

Nbr of Patents :

1

Nbr of Countries :

1

Patent Number :

SU1724321 A1 19920407 DW1993-10 B01D-039/16 5p *

AP: 1989SU-4765964 19891207

Priority Nbr :

1989SU-4765964 19891207

IPC s :

B01D-039/16

Basic Abstract :

SU1724321 A

The material has face and reverse layers (1,2) made of synthetic fibres and an intermediate framework layer (4) made as woven or non-woven cloth of synthetic threads, and connected by needle puncturing and heat treatment. The material also has an additional fibrous layer (3) whose needle puncturing density is double that of the outer layers. The framework layer is situated in the additional layer at a distance from the outlet layers exceeding their thickness. The face and reverse layers have similar thickness and surface density.

The material is formed by forming the outer face and reverse layers with simultaneous laying of the intermediate layer and the layers connection by needle puncturing and subsequent heat treatment. The additional layer needle puncturing on the face layer side is carried out to boundary with the reverse layer, and needle puncturing on the reverse layer side is carried out to its boundary with the face layer. The heat treatment is carried out on a friction calender with linear velocity ratios of its inlet and outlet rolls of 1:(1.2-1.5).

USE/ADVANTAGE - Multilayer filtering material prodn. Material operation properties are increased. Bul.13/7.4.92 (Dwg.1/1)

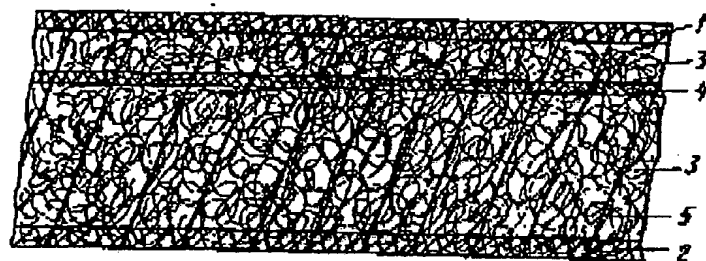
Manual Codes :

CPI: F02-A03A F02-C01 F03-D02 F03-D03 F04-E05 F04-F03

J01-H

Update Basic :

1993-10



Search statement 2

1/1 DWPI - (C) Derwent- image

Accession Nbr :

1995-099998 [14]

Sec. Acc. CPI :

C1995-045409

Sec. Acc. Non-CPI :

N1995-079033

Title :

Filter medium for surface filtration, esp. for dust laden gases - has surface layer of microfibre needle punched to coarse fibre layer with reinforcing supporting layer

Derwent Classes :

F04 J01 P73

Patent Assignee :

(HEIM) HEIMBACH GMBH & CO THOMAS JOSEF

Inventors :

BOECKENBRINK M; BREUER H; DUERBAUM H; EBENER B;
OEHMICHEN-ROERING P

Nbr of Patents :

3

Nbr of Countries :

7

Patent Number :

EP-641588 A1 19950308 DW1995-14 B01D-039/08 Ger 7p *

AP: 1994EP-0111434 19940722

DSR: BE DE FR GB IT NL SE

EP-641588 B1 19970319 DW1997-16 B01D-039/08 Ger 5p

AP: 1994EP-0111434 19940722

DSR: BE DE FR GB IT NL SE

DE59402125 G 19970424 DW1997-22 B01D-039/08

FD: Based on EP-641588

AP: 1994DE-5002125 19940722; 1994EP-0111434 19940722

Priority Nbr :

1993DE-U011628 19930804

Cited Patents :

EP-248182; EP-269462; EP-391660; EP-410733;

FR1572324; JP06057116; JP05057116

02Jnl.Ref; 1.Jnl.Ref

IPC s :

B01D-039/08 B32B-005/06 D04H-013/00

Basic Abstract :

EP-641588 A

Filter medium, for surface filtration, has a woven or non-woven supporting layer (2) joined by needle punching to coarse fibre layers (3, 4) and an external fine fibre layer (5). The fine fibre layer (5) consists essentially of microfibres.

USE - Improved medium used for surface filtration, esp. for dust laden gases.

ADVANTAGE - Filtration efficiency is improved while retaining the filtration action on the surface. (Dwg.1/1)

EP Equiv. Abstract :

EP-641588 B

Filter means for surface filtration, with a web of carrier material, consisting of a thread structure or of a spun-bonded fabric, and with a fibre layer formed from a coarse-fibre layer (3, 4) and from an outer fine-fibre layer (5) which are inter-needled, characterised in that the fine-fibre layer (5) consists essentially of microfibres which, in the case of inorganic fibres, have a fibre diameter smaller than or equal to 10 μ m, and, in the case of organic fibres, have a linear density smaller than or equal to 1 dtex, and in that the outside of the fine-fibre layer (5) is provided with a porous plastic coating.

(Dwg.1/1)

Manual Codes :

CPI: F01-E02 F02-A03A F02-C01 F02-C02D F04-E05 J01-H

Update Basic :

1995-14

Update Equivalents :

1997-22